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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	16.87	6	6
9	RCC(M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.06	4	4

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10	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
11	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-01-05-13** **Date: 18-09-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 15-09-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.87	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Certificate No.: TC-5548

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-01-05-13 **Date: 13-10-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 15-09-20

Environmental Conditions during test : Temperature: 26˚C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-05-13** **Date: 18-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-09-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-05-13 Date: 18-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-05-13** **Date: 16-09-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 14-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-05-13 Date: 16-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-05-13** **Date: 16-09-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 14-09-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-01-05-13 **Date: 16-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2021-01-05-13**	**Date: 15-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."	
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.	
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-09-20	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test	:	14-09-20	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar (mm)	Weight of the sample (kg/m)	Yield stress (N/mm2)	Tensile strength (N/mm2)	Elongation (%)	Bend test	Rebend test
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-01-05-13** **Date: 12-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-20
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-10-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	202	203	16525	31.891	1929.8	1971.5	Not less than 1800Kg/m^3
2	403	203	203	16607	33.479	2015.9		
3	405	202	200	16362	32.215	1968.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-01-05-13 Date: 12-10-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	199	
3	402	202	199	
4	403	200	201	
5	403	200	202	
6	401	201	201	
7	403	200	201	
8	401	201	203	
9	400	203	201	
10	400	202	203	
11	402	202	203	
12	403	201	201	
13	403	202	202	
14	401	202	200	
15	404	202	203	
16	403	202	203	
17	404	202	203	
18	400	202	200	
19	403	201	200	
20	400	199	202	
Average of 20	**402**	**201**	**201**	

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Vidyaranyapura Sub Division
BBMP, Bangalore

CIVIL Pro
Sig.
Date.
BANGALORE

R. Lankand

Lab ID : CP-2021-01-05-13 Date: 12-10-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	200	80566	411.6	5.1	5.4
2	400	200	80065	432.4	5.4	
3	402	202	81375	441.4	5.4	
4	403	200	80477	449.6	5.6	
5	403	200	80785	417.0	5.2	
6	401	201	80366	433.0	5.4	
7	403	200	80590	438.9	5.4	
8	401	201	80666	450.2	5.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Sauthi . NK
AE WIO

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : **CP-2021-01-05-13** **Date: 12-10-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-20

Sample Type/Size : Solid concrete blocks size (400X100X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 08-10-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	101	198	8059	33.840	4199.0	4074.5	Not less than 1800Kg/m^3
2	400	102	202	8242	31.445	3815.4		
3	404	98	201	7958	33.498	4209.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-01-05-13 Date: 12-10-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	101	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	101	202	
3	402	103	199	
4	402	101	203	
5	399	103	199	
6	401	100	202	
7	399	100	200	
8	400	103	201	
9	400	100	199	
10	401	100	203	
11	402	99	199	
12	400	102	202	
13	401	103	201	
14	402	102	200	
15	400	101	202	
16	402	99	201	
17	401	100	199	
18	404	100	200	
19	403	101	199	
20	401	102	201	
Average of 20	**401**	**101**	**201**	

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Lab ID : **CP-2021-01-05-13** **Date: 12-10-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	101	40811	174.8	4.3	4.3
2	403	101	40896	192.8	4.7	
3	402	103	41298	172.9	4.2	
4	402	101	40786	155.1	3.8	
5	399	103	41065	188.4	4.6	
6	401	100	40217	182.6	4.5	
7	399	100	39868	187.9	4.7	
8	400	103	41127	158.6	3.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 28/09/2020**
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-09-20
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Footing Concrete	M25	21/09/2020	28/09/2020	151.43 X 151.11 X 150.36	22882	**8.925**	534.7	23.4	22.5
2	Footing Concrete	M25	21/09/2020	28/09/2020	150.90 X 150.70 X 150.52	22740	**8.767**	504.0	22.2	
3	Footing Concrete	M25	21/09/2020	28/09/2020	152.00 X 149.95 X 149.93	22792	**8.424**	502.2	22.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 19/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-20

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	21/09/2020	19/10/2020	149.75 X 149.09 X 151.43	22326	**8.561**	604.6	27.1	27.2
2	Footing Concrete	M25	21/09/2020	19/10/2020	151.74 X 150.21 X 149.22	22793	**9.016**	603.3	26.5	
3	Footing Concrete	M25	21/09/2020	19/10/2020	149.06 X 151.08 X 149.77	22520	**9.053**	633.8	28.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-05-13** **Date: 28/09/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-20
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Footing Concrete	M25	21/09/2020	28/09/2020	150.30 X 150.22 X 151.11	22578	**8.925**	528.9	23.4	22.6
2	Footing Concrete	M25	21/09/2020	28/09/2020	149.75 X 149.36 X 149.65	22366	**8.767**	492.8	22.0	
3	Footing Concrete	M25	21/09/2020	28/09/2020	149.91 X 150.51 X 149.70	22563	**8.424**	505.7	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 19/10/2020**
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-09-20
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 19/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	21/09/2020	19/10/2020	151.95 X 151.20 X 151.81	22975	**8.561**	637.2	27.7	27.5
2	Footing Concrete	M25	21/09/2020	19/10/2020	150.41 X 151.66 X 150.56	22810	**9.016**	611.2	26.8	
3	Footing Concrete	M25	21/09/2020	19/10/2020	150.44 X 151.30 X 149.37	22762	**9.053**	637.9	28.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-05-13** **Date: 03/10/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-20
Customer ID	:	Columns Below GL Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Columns Below GL Concrete	M25	26/09/2020	03/10/2020	150.99 X 150.64 X 150.08	22744	**8.925**	526.5	23.2	22.5
2	Columns Below GL Concrete	M25	26/09/2020	03/10/2020	152.00 X 149.19 X 149.88	22677	**8.767**	503.8	22.2	
3	Columns Below GL Concrete	M25	26/09/2020	03/10/2020	150.71 X 150.12 X 149.02	22625	**8.424**	502.0	22.2	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-05-13** — **Date: 24/10/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-20
Customer ID	:	Columns Below GL Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Columns Below GL Concrete	M25	26/09/2020	24/10/2020	151.31 X 149.85 X 151.81	22674	**8.561**	624.0	27.5	27.4
2	Columns Below GL Concrete	M25	26/09/2020	24/10/2020	150.32 X 149.02 X 150.46	22400	**9.016**	587.4	26.2	
3	Columns Below GL Concrete	M25	26/09/2020	24/10/2020	151.02 X 151.08 X 151.43	22816	**9.053**	648.5	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 08/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-20

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Plinth Beam Concrete	M25	01/10/2020	08/10/2020	151.50 X 150.31 X 149.91	22772	**8.925**	537.8	23.6	23.1
2	Plinth Beam Concrete	M25	01/10/2020	08/10/2020	150.19 X 151.74 X 151.90	22789	**8.767**	522.7	22.9	
3	Plinth Beam Concrete	M25	01/10/2020	08/10/2020	151.42 X 151.41 X 150.86	22926	**8.424**	520.2	22.7	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 29/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-20

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	01/10/2020	29/10/2020	149.35 X 151.98 X 150.58	22698	**8.561**	619.4	27.3	27.7
2	Plinth Beam Concrete	M25	01/10/2020	29/10/2020	150.28 X 151.66 X 151.55	22791	**9.016**	615.1	27.0	
3	Plinth Beam Concrete	M25	01/10/2020	29/10/2020	150.89 X 149.50 X 150.23	22558	**9.053**	650.9	28.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/10/2020

Lab ID	:	**CP-2021-01-05-13**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-20
Customer ID	:	GF Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	GF Column Concrete	M25	06/10/2020	13/10/2020	149.95 X 151.79 X 151.73	22761	**8.925**	535.8	23.5	23.1
2	GF Column Concrete	M25	06/10/2020	13/10/2020	150.63 X 151.47 X 149.36	22816	**8.767**	524.5	23.0	
3	GF Column Concrete	M25	06/10/2020	13/10/2020	150.47 X 151.14 X 150.40	22743	**8.424**	517.5	22.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 03/11/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-20

Customer ID : GF Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	GF Column Concrete	M25	06/10/2020	03/11/2020	150.03 X 149.96 X 149.42	22498	**8.561**	626.5	27.8	27.7
2	GF Column Concrete	M25	06/10/2020	03/11/2020	150.88 X 150.71 X 149.24	22739	**9.016**	600.6	26.4	
3	GF Column Concrete	M25	06/10/2020	03/11/2020	149.87 X 150.95 X 151.43	22624	**9.053**	651.8	28.8	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 21/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-10-20

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M25	14/10/2020	21/10/2020	149.87 X 151.40 X 151.92	22691	**8.925**	527.9	23.3	22.9
2	Lintel Concrete	M25	14/10/2020	21/10/2020	149.09 X 150.92 X 150.31	22500	**8.767**	516.3	22.9	
3	Lintel Concrete	M25	14/10/2020	21/10/2020	150.56 X 150.80 X 149.61	22704	**8.424**	509.0	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/11/2020

Lab ID	:	**CP-2021-01-05-13**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Lintel Concrete	M25	14/10/2020	11/11/2020	149.12 X 150.19 X 149.70	22396	**8.561**	619.1	27.6	27.6
2	Lintel Concrete	M25	14/10/2020	11/11/2020	151.59 X 151.84 X 149.80	23017	**9.016**	620.3	27.0	
3	Lintel Concrete	M25	14/10/2020	11/11/2020	149.94 X 151.39 X 151.48	22699	**9.053**	636.9	28.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-05-13** **Date: 28/10/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-20
Customer ID	:	Gf Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Gf Roof Concrete	M25	21/10/2020	28/10/2020	151.98 X 150.30 X 151.23	22843	**8.925**	532.5	23.3	22.6
2	Gf Roof Concrete	M25	21/10/2020	28/10/2020	149.05 X 149.48 X 151.41	22280	**8.767**	497.0	22.3	
3	Gf Roof Concrete	M25	21/10/2020	28/10/2020	149.79 X 149.54 X 150.71	22401	**8.424**	495.6	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-05-13** **Date: 18/11/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-20

Customer ID : Gf Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Gf Roof Concrete	M25	21/10/2020	18/11/2020	151.07 X 149.70 X 150.46	22615	**8.561**	614.8	27.2	27.4
2	Gf Roof Concrete	M25	21/10/2020	18/11/2020	151.27 X 150.70 X 149.06	22797	**9.016**	614.7	27.0	
3	Gf Roof Concrete	M25	21/10/2020	18/11/2020	150.13 X 150.01 X 151.07	22521	**9.053**	631.5	28.0	

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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2021-01-05-13** **Date: 13-10-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-10-20

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-10-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2021-01-05-13** **Date: 13-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	–
5	*Loose Bulk Density (Kg/litre)	1.73	–

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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2021-01-05-13 **Date: 14-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	"Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."
Agency	:	Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/106/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	10-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-01-05-13   **Date: 14-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

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R. Rudraprasad

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro
Sig.............
Date.............
BANGALORE

****End of Report****

Suette. N L
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore -97

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST REPORT OF CERAMIC TILES

Lab ID : **CP-2021-01-05-13** **Date: 20-10-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : "Repairs and Maintenance to Public Toilet in Ward No.10 (Doddabommasandra)."

Agency : Sri.Maruthi Enterprises, (Prop) Chethan A, #No:72/1, Nagashettyhalli, Sanjaynagara, Bangalore-94.

Customer's Reference : BBMP/EE/BTP/WO/106/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-10-20

Sample Type/ Size : Ceramic tiles (300X300)mm

Reference to BIS codes : IS 13630 (part 1) : 2006, IS 15622:2006

Date of test : 13-10-20

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	**300**		**300**		**6.05**			

Sumitha. N.K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro
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Date.............
BANGALORE

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CERAMIC TILES

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Date of test : 13-10-20

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Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	**300**		**300**		**6.05**			

Sunitha. N.K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Date.........
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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

Swetha .NL
AEW10

CIVIL Pro BANGALORE
Sig.
Date

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

End of Report

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